Ms. No.: dwes-2013-15 MS Type: Research Article Title: Removal of paraquat pesticide with Fenton reaction in a pilot scale water system Author(s): Cátia Oliveira, Kamila Gruskevica, Talis Juhna, Kristina Tihomirova, Arminda Alves, Luis M. Madeira Journal: Drinking Water Engineering and Science Interactive comment on Drink. Water Eng. Sci. Discuss., 6, 233, 2013

Reviewer #1:

Reviewer comments:

This manuscript is an interesting report on the feasability of using Fenton's reaction process to remove the compound Paraquat (a common pesticide) from water. The report is very well written and presented. In addition to the comments made by the Editor, I would recommend for the authors to provide more background about:

• (1) competitive processes already considered to remove Paraquat and their relative efficiency and (2) other types of compounds removed by Fenton treatment (and their relative efficiency).

We acknowledge the very positive overall comment, as well as your suggestion to provide more background. In this respect, we added further information about other works in the field of paraquat elimination from waters and inherent efficiencies, as well as references to previous works made on elimination of different contaminants by Fenton's process (cf. Introduction section, pages 2 and 3, and highlighted in yellow).

• In the conclusion, the authors are also invited to provide their perspectives on the operating/maintenance costs of this process compared to other AOP.

As suggested, our perspective about the operating/maintenance costs of this process have been addressed just before the conclusions section, showing that this process, when compared to others, is practical and cost-effective. Of course, in an emergency situation this should not be the limiting issue.

Please note that the font in some Figures are too small to be readable (especially in Fig 1, but also for most of the legends in the other Figures).

We acknowledge the remark and accordingly we have changed the characters font size in all figures.